MITACONENT A

The Status of Polyethelene in the Sino-Soviet Bloc

There is a definite shortage of production of polyethelemes in the Sino-Soviet Bloc and an urgent need for the development of "know-how," designs, and plant equipment. Repeated attempts are being made to obtain these from the West. Polyetheleme is of great importance at the present time for direct military uses, and has many indirect uses for military purposes. It is now the best material available for these purposes.

Five of the Bloe countries, USSR, East Germany, Poland, Caseboalevakia and Russnia, are sarrying on active research and development on polyethelene. A very small quantity is being produced in East Germany and pilot plant quantities are being produced in Caseboalevakia; there is no production in the other sountries.

DESE

The Seviets have expressed great interest in pelyethelene production and in obtaining technical "know-how" in the United States, and have requested (or suggested) visits to American producers of this product. Negotiations have been undertaken in the past year with the Imperial Chemical Industry of England and the Max Planck Institute of West Germany for obtaining plant design and production "know-how." Published statements in the USSR claim that there have been delays in working out a simpler method for pelyethelene production, and that the experimental plant in Taroslavi is conducting experiments to set up production at atmospheric pressure (this will give pelyethelenes of from 7,000 to 300,000 melecular weight).

MAST GERMAN

Pelyethelene production has high priority in the planned research program of East Germany, but there is no evidence that results have gone beyond small plant production. The laboratory work of the VEB "Leuna" plant (Merseberg) with high-pressure and low-pressure polyethelene is said to be of considerable interest to Russian specialists.

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SECRET

OZECHOSLOVAKIA

It is claimed in public statements that Czechoslovakia will go into production of polyethelene by the Zeigler low-pressure process in late 1956. The Czechs recently requested permission to send a delegation to visit United States plants producing polyethelene and polyethelene production equipment, and it is understood that a representative is now in the United States studying the packaging of materials in plastics for shipment to tropical areas. (This use has been developed by the Quarternaster Gorps of the U.S. Army with the aid of the plastics producers. It is decidedly a military use.)

HIMME

Rumania requested an exchange of delegations and permission to send a very high-level group of chemical specialists to inspect American plants producing polyethelene. This was turned down by the IAC Sub-Committee on Chemicals. However, within a short time, the same delegation from Rumania came to the United States under a private sponsor. At the present time, the delegation is trying to visit the American plants to obtain production data and technical "know-how" on polyethelene. (They are also interested in the production of other major and important plastics.)

POLAND

Poland, as well as the above orbit countries, has shown great interest in plastics.